

Name: \_\_\_\_\_

## p1029: Combine Like Terms (v5)

### Example

Combine like terms.

$$-8x^2 + 2x^2 - x^2 + 6x + 8x + 7 + 4 - 5 - 3x + x^2$$

### Answer

Combine the quadratic terms.

$$-8x^2 + 2x^2 - x^2 + x^2 \equiv -6x^2$$

Combine the linear terms.

$$6x + 8x - 3x \equiv 11x$$

Combine the constant terms.

$$7 + 4 - 5 \equiv 6$$

The final result:

$$-6x^2 + 11x + 6$$

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### Question 1

Combine like terms.

$$-1 + x^2 - 5x^2 + 8x^2 + 6x - 7 - 9 + 5x - 4x - 2$$

**Question 2**

Combine like terms.

$$-9x^2 + 6 - 4x^2 - 6 + 9x + 8x^2 - 8 + 2x - x + 4$$

**Question 3**

Combine like terms.

$$-x^2 + 9x + 7x - 9 - 4x^2 + 6 + 5x - 8 - 3x^2 - 2x^2$$

**Question 4**

Combine like terms.

$$4x^2 - 1 + 9x + 3x - 3x + 2x^2 - 6 - 5 + x^2 + 5x$$